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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/716,678 11/20/2003		Yoshihiko Hori	8004-1015	7373	
466	7590 07/21/2005		EXAMINER		
	THOMPSON	WAMSLEY, PATRICK G			
745 SOUTH 2ND FLOOI	23RD STREET	ART UNIT	PAPER NUMBER		
ARLINGTON, VA 22202			2819		
			DATE MAILED: 07/21/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	n No.	Applicant(s)				
		10/716,67	8	HORI, YOSHIHIKO				
	Office Action Summary	Examiner		Art Unit				
	<u> </u>	Patrick G.		2819				
Period fo	The MAILING DATE of this communic or Reply	cation appears on the	cover sheet with the c	orrespondence ad	dress			
THE - External after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FO MAILING DATE OF THIS COMMUNIC usions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commus period for reply specified above is less than thirty (30) period for reply is specified above, the maximum stature to reply within the set or extended period for reply wreply received by the Office later than three months afted patent term adjustment. See 37 CFR 1.704(b).	CATION. f 37 CFR 1.136(a). In no eve nication. days, a reply within the statu tory period will apply and wil itl. by statute. cause the appl	nt, however, may a reply be tim tory minimum of thirty (30) days I expire SIX (6) MONTHS from cation to become ABANDONE	ely filed will be considered time the mailing date of this co (35 U.S.C. § 133).	y. ommunication.			
Status								
1)[\inf	Responsive to communication(s) filed	on <i>06/15/2005</i> .		•				
• —	This action is FINAL . 2b)⊠ This action is non-final.							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
5) 6) 7)								
Applicat	ion Papers							
10)⊠	The specification is objected to by the The drawing(s) filed on <u>20 November</u> Applicant may not request that any object Replacement drawing sheet(s) including the oath or declaration is objected to	2003 is/are: a) \boxtimes action to the drawing(s) be the correction is require	e held in abeyance. See ed if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 C	FR 1.121(d).			
Priority (under 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachmen	at(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)								
3) Infor	ce of Draftsperson's Patent Drawing Review (PT mation Disclosure Statement(s) (PTO-1449 or F er No(s)/Mail Date <u>02/19/2004</u> .		Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate atent Application (PT	O-152)			

Application/Control Number: 10/716,678

Art Unit: 2819

DETAILED ACTION

Restriction / Election of Species

Applicant's election with traverse of the species depicted in Figure 10, allegedly readable upon claims 1, 2, 4, 5, 6, 13, 15, 19, 20, 21, 22, 23, and 24 in the reply filed on 06/15/2005 is acknowledged. Claims 3, 7-12, 14, 16-18 are withdrawn from consideration. The traversal is on the grounds that the consideration of all claims does not amount to an increased searching burden. This is not found persuasive because parallel-to-serial and serial-to-parallel converters are assigned to different subclasses. While both converters are coding devices, their search areas are not identical.

As set forth in M.P.E.P. 810.02, Patent Office policy is to defer action on the merits until after the requirement for restriction is complied with, or withdrawn.

Applicant has neither elected a specific invention nor presented arguments to convincingly persuade the examiner to withdraw the restriction requirement. As noted in the second sentence of 37 C.F.R. 1.143, a provisional election must be made even though the restriction is traversed. See M.P.E.P. 818.03(b).

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- Claims 1, 2, 4, 5, and 6, drawn to parallel to serial conversion, classified in class 341, subclass 101.
- Claim 13, drawn to serial to parallel conversion, classified in class 341, subclass 100.

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Inventions I and II are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable.

In the instant case, invention I has separate utility such as parallel to serial conversion independent of serial to parallel conversion. See M.P.E.P. § 806.05(d). Claims 15,19, 20, 21, 22, 23, and 24 appear to link the two inventions.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Specification

The specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.

Claim Objections

Claim 19 is objected to because of the following informalities:

Claim 19, line 5:

Change "to generat" to -- to generate --.

Claim 19, lines 24-25:

Change "date reception" to -- data reception --.

Appropriate correction is required.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. Patent 6,707,399 to Wang et al describes data realignment techniques for serial-to-parallel conversion. U.S. Patent 6,232,895 to Djupsjobacka et al uses a logic circuit to couple a serial-to-parallel converter to a parallel-to-serial converter. U.S. Patent 6,052,073 to Carr shows a multiplexed serial-to-parallel converter. U.S. Patent 5,982,309 to Xi et al displays a multiplexed parallel-to-serial converter.

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U.S. Patent 5,259,000 to Kojima et al couples a parallel to serial converter [605] to a serial-to-parallel converter [606]. U.S. Patent 4,674,064 to Vaughn uses latches [157/159] to couple a serial to parallel converter [155] to a parallel to serial converter [163]. U.S. Patent 4,620,311 to Schouhamer Immink uses encoding [3] and decoding [8] circuits to link series-parallel converters [2/7] to parallel-series converters [4/9]. U.S. Patent 4,158,107 to Nicholas links a serial-to-parallel converter [12] to a parallel-to-serial converter [42] by means of a RAM [16].

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patrick G. Wamsley whose telephone number is (571) 272-1814. The official facsimile number is (571) 273-8300. An alternate facsimile number, (571) 273-1814, should only be used for unofficial documents.

Patrick G. Wamsley

July 15, 2005